	tect and Restore Watersheds and A		
Work Plan Component/Program	: II. EPA Contact(s):	Basin Commission Contact(s):	PRC: 202B06
DRBC Criteria-Based Programs	Dana Hales, Joel Blanco	T. Amidon	
Work years: 2020:			
Project Description: PCBs - Ong	oing PMP Management		
Environmental Outcomes	Measures	Outputs for FY 2019 (Commitments)	Status/Comment
Implementation of	•	Ongoing Point Source Data Review and	
Stage 1 & 2 PCB TMDLs		Assessment. Ongoing Pollutant	
(Zones 2-6)		Minimization Plan review and	
		management. Readily available data for	
		action level option evaluation.	
	•	By November 30, 2020 DRBC will	
		provide a list of PMPs reviewed by DRBC	
		and by the states, plus a slide set on	
		PMP activities during 2020.	

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Work Plan Component/Program: DRBC Criteria-Based Programs Work years: 2020:	II. EPA Contact(s): Bill Richardson	Basin Commission Contact(s): J. Yagecic	PRC : 202B06
Project Description: Boat Run m	nitoring program		
Environmental Outcomes	Measures	Outputs for FY 2019 (Commitments)	Status/Comment
Assessment of Bacteria, eutrophication, metals, and conventional parameters (i.e., nutrients, dissolved oxygen, chlorides).		Management and execution of an expanded Boat Run monitoring program. All data readily available in STORET/WQX. Monitoring composed of: 22 sample locations in the Delaware River and Bay between River Miles 6.5 and 131; Planned monthly monitoring events in Jan, Feb, and March for routine, nutrient, and algal parameters; Planned monthly monitoring events in April through October for routine, bacterial, nutrient, algal, sodium, biotic ligand model, pesticides, PAHs, organics, and PFAS parameter groups (select stations); Upon upload of all data to STORET/WQX, links to a pre-canned query for the resultant data set will be provided. All 2020 data uploaded by February 28, 2021 and pre-canned queries	

		and nestore watersnead	and Aquatic Eco		
Work Plan Component/P DRBC Criteria-Based Prog Work years: 2020:			rine Bentley	Basin Commission Contact(s): E. Panuccio	PRC: 202B06
Project Description: Exp	anded Nutri	ent Monitoring - Delawa	are at Trenton ar	nd Schuylkill at Philadelphia	
Environmental Outcomes		Measures	C	Outputs for FY 2019 (Commitments)	Status/Comment
Implementation of nutrient criteria plan. Data in support of estuary eutrophication model.			related parameter Delaware River Philadelphia. A STORET/WQX. Monitoring Cor Samplia NJ, Call at Falls Analyti Chlorid TKN, O Phosph Volatile DOC; Monitoring Coround, Upon upload of to a pre-canned will be provided February 28, 20	nalysis of nutrients and nutrient eters twice per month at the at Trenton and the Schuylkill at all data readily available in mposed of: Ing the Delaware River at Trenton noun St. Bridge and the Schuylkill Bridge; Ical parameters include COD, e, Ammonia, Nitrate + Nitrite, rthophosphate, Alkalinity, Total norus, Silica, Total Residue (TS), e Residue (TVS), Sulfate, TOC, and oring twice per month, yearfor a total of 24 sampling events. If all data to STORET/WQX, links diquery for the resultant data set d. All 2020 data uploaded by 021 and pre-canned queries C web page by March 15, 2021.	

Objective 2: Objective 2.2: Protect	and Restore Watersheds	s and Aquatic Eco	systems	
Work Plan Component/Program: II. DRBC Criteria-Based Programs Work years: 2020:			Basin Commission Contact(s): E. Panuccio	PRC : 202B06
Project Description: Nutrients - Nut	ient Monitoring in Tidal	Tributaries to th	e Delaware Estuary	
Environmental Outcomes	Measures	0	utputs for FY 2019 (Commitments)	Status/Comment
Implementation of nutrient criteria plan. Data in support of estuary eutrophication model.		tributaries to the Monitoring Com	ent monitoring at selected e Delaware Estuary. Inposed of: It tributaries to the Delaware pending assessment of previous cal parameters include COD, e, Ammonia, Nitrate + Nitrite, thophosphate, Alkalinity, Total orus, Silica, Total Residue, Total Residue, Sulfate, TOC, DOC; onitoring events in 2020. all data to STORET/WQX, links query for the resultant data set I. All 2020 data uploaded by 21 and pre-canned queries web page by March 15, 2021.	

Goal 2: Protecting America's Water	S			
Objective 2: Objective 2.2: Protect	and Restore Watersheds	and Aquatic E	Ecosystems	
Work Plan Component/Program: II. DRBC Criteria-Based Programs Work years: 2020:			Basin Commission Contact(s): R. MacGillivray	PRC: 202B06
Project Description: Water Column	Integrative PCB samplers	(Monitoring I	nitiative)	
Environmental Outcomes	Measures		Outputs for FY 2019 (Commitments)	Status/Comment
Assess the effectiveness of the PCB TMDLS. Evaluate methodologies for long term monitoring.		In recent year sediment result Water column however may over time. Un evaluate seve samplers, and chosen sample If repeated in samplers may	nalyze integrative samplers at ons in the Delaware Estuary. s, effluent, fish tissue, and allts all suggest a decrease in PCBs. a results from grab samples be too variable to track trends ader this project, DRBC will ral options for integrative select, deploy, and analyze the ers. subsequent years, integrative provide additional information on ectories of water column PCBs.	

Objective 2: Objective 2.2: F		•	· · · · · · · · · · · · · · · · · · ·	1
Work Plan Component/Progr	am: II. EPA	Contact(s):	Basin Commission Contact(s):	PRC: 202B06
DRBC Criteria-Based Programs	s Katl	nerine Bentley, K.L. Lai	N. Suk	
Work years: 2020:				
Project Description: Estuary	Eutrophicatio	n Model Development		
Environmental Outcomes	Meas	ures	Outputs for FY 2019 (Commitments)	Status/Comment
A model for		•	Continued development of the	
determining Delaware			Delaware Estuary Eutrophication model.	
Estuary dissolved				
oxygen response to		•	In November 2020, DRBC will provide to	
nutrient loadings.			EPA slides documenting the progress	
			and status of model development.	
			· ·	
			Continued calibration and exercise of	
			models.	
			models;	

	/e 2.2 : Pr		Watersheds and Aquati	1	PRC: 202B06
Vork Plan Component/Program: IV. Sissessment & Management Vork years: 2020: EPA Contact(s): Bill Richardson, Kingston Lai		Katherine Bentley, KL	therine Bentley, KL Basin Commission Contact(s): J. Yagecic		
Project Description:	Spectral A	Analyzers for Nitra	te		
Environmental Outcomes		Measures		Outputs for FY 2019 (Commitments)	Status/Comment
Continuous real- time Nitrate measurements at key locations relevant to the Delaware Etuary Eutrophication Model.			for the temporary of Delaware River at T (model interior). Tr nitrate. Chester specific dissolved organic calculations and Concentration and Concentration. Rea HYPERLINK "https://waterdata.and [HYPERLINI "https://waterdata.]. The spectral signa	loyed in 2018 and will remain through r 2020. USGS will collect grab samples ating the spectral signal to nitrate at Chester) organic carbon l-time data is currently available at [usgs.gov/usa/nwis/uv?01463500"] K usgs.gov/nwis/uv?site_no=01477050" I will be back-translated so that the ne series will be available for the full	

Objective 2: Objective 2.2: Pr			.as and Aquatic Ect		DDC 202006
Work Plan Component/Progra		PA Contact(s):	La transport de la Million	Basin Commission Contact(s):	PRC: 202B06
Assessment & Management			herine Bentley, KL	J. Bransky, E. Panuccio	
Work years: 2020: Project Description: 2020 Wa	tor Quality		rt (CWA - 205(b))		
Environmental Outcomes	·	easures	0	utputs for FY 2019 (Commitments)	Status/Comment
Identification of Water			DRBC will develo	op its Delaware River and Bay	
Quality Issues and			Water Quality A	ssessment Report in accordance	
Concerns			with Section 305	5(b) of the Clean Water Act	
			following the m	ethodology published in the	
			Federal Register	in 2019. In that report, DRBC	
			will assess whet	her or not water quality	
			standards for th	e Delaware Estuary are being	
			met.		
			Δ draft of the 20	020 report will be submitted to	
			10000000	2020. The final report will be	
			100000000000000000000000000000000000000	e DRBC web site by August 31,	
			2020.	o bribe web site by riagast st,	
			2020.		

Work Plan Component/Program: I Assessment & Management Work years: 2020:	Z. EPA Contact(s): Katherine Bentley, K	L Lai	Basin Commission Contact(s): J. Bransky	PRC : 202B06
Project Description: Delaware Est	ary enhanced light extin	000; 0000000000000000000000000000000000		I
Environmental Outcomes	Measures		Outputs for FY 2019 (Commitments)	Status/Comment
Data in support of estuary eutrophication model.		DRBC will collect measurements of PAR in air, PAR at 1-meter water depth, TSS, and chlorophyll-a during 3 sampling events at approximately 60 stations per event (for a total of 180 samples) the upper portion of the Delaware Estuary. This effort is a continuation of light extinction monitoring begun in 2018. This data will be used to develop a candidate regression model for determining light extinction as a function of estuary eutrophication model state variables. TSS and chlorophyll-a data will be readily available in STORET/WQX by December 31, 2020. PAR data will be available via the DRBC web site by December 31, 2020.		

Goal 2: Protecting America's Waters Objective 2: Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems Work Plan Component/Program: II. EPA Contact(s): Basin Commission Contact(s): PRC: 202B06 DRBC Criteria-Based Programs Dana Hales, Joel Blanco, Ashley Toy N. Suk Work years: 2020: Project Description: Stage 2 PCB TMDLs **Environmental Outputs for FY 2019** Status/Comment Measures (Commitments) Outcomes Continued effort toward finalization of the Finalization of Stage 2 **PCB TMDLs** Stage 2 PCB TMDLs for the Delaware River Estuary and Bay. Support EPA in preparation of responses to comments document. Finalize Stage 2 PCB TMDLs report based on comments from stake holders and general public.

Objective 2. Objective 2.	Protect a	ind Restore Watersheds	s and Aquatic Ecosystems	
Work Plan Component/P Assessment & Manageme Work years: 2020:	rs: 2020:		Basin Commission Contact(s): J. Bransky	PRC : 202B06
Project Description: Dela	aware River	Biological Monitoring		
Environmental Outcomes		Measures	Outputs for FY 2019 (Commitments)	Status/Comment
Monitor macroinvertebrate community for water quality and aquatic life protection.			 Collect macroinvertebrate and periphyton samples, with laboratory analysis including enumeration and identification to genus level. All data entered into database and readily available. Monitoring composed of: Biomonitoring at 25 sites including West Branch Delaware River at Hancock, East Branch Delaware River at Hancock, Delaware River Buckingham, Long Eddy, Callicoon, Castillo del Rio, Ascalona, Pond Eddy, Port Jervis, DEWA NB, Caddoo Road, Spackmans Island, Bushkill Access, Worthington Access, Arrow Island, Portland, Capush Island, Getters Island, Wy-Hit-Tuk Park, Raubs Island, Upper Black Eddy, Rush/Treasure Island, Bulls Island, Washington Crossing, Rotary Island (Trenton); Macroinvertebrate 3-kick composite, 500-organism subsample to genus, Periphyton Ash free dry mass, benthic chlorophyll-a, Periphyton community composition, RBP habitat, and other site analyses; 	

 Monitoring is performed once in in August- September index period. 	
All monitoring completed by September 30, 2020 and all data readily available by December 31, 2021.	



Goal 2: Protecting America's Waters Objective 2: Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems Work Plan Component/Program: IV. **Basin Commission Contact(s):** EPA Contact(s): PRC: 202B06 Assessment & Management Bill Richardson, KL Lai J. Yagecic Work years: 2020: Project Description: Enhanced Bacterial Transects, Zones 3 and Upper 4 **Environmental Outputs for FY 2019** Status/Comment Measures (Commitments) Outcomes Monitoring of 4 boat-based transects (to be Protection of human health associated with determined), 5 samples per transect, 3 times primary contact during summer 2020 for Fecal Coliform, E. Coli, and Enterococcus. Results will be assessed to recreation determine near-shore versus far-shore differences to help interpret results collected in 2019. All results will be readily available in STORET/WQX by December 31, 2020.

Goal 2 : Protecting America's V Objective 2 : Objective 2 : P		d Restore Watershe	ds and Aquatic Ecosystems	
Work Plan Component/Program: IV. E		EPA Contact(s): Kelly Somers	Basin Commission Contact(s): J. Yagecic	PRC : 202B06
Project Description: Manager	ment - Gr	ant and infrastructu	re management	
Environmental Outcomes	Ν	/leasures	Outputs for FY 2019 (Commitments)	Status/Comment
Effective management of 106 Resources			106 grant application and reporting.	
			Outputs include successful completion of:	
			 Mid-year joint evaluation call; 	
			Overall grant management;	
			End of year comments.	